

OCT 09 2002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE TECH CENTER 1600/25

Applicant: Van Rooijen *et al.*

Serial No.: 10/032,201

Filed: December 19, 2001

For: *METHODS FOR THE PRODUCTION OF
MULTIMERIC PROTEIN COMPLEXES,
AND RELATED COMPOSITIONS*

Art Unit: 1638

Examiner: Unassigned

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#14

TRANSMITTAL LETTER

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

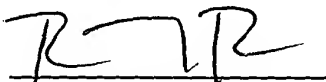
Transmitted herewith is an Information Disclosure Statement, Forms PTO-1449 (14 pages), and cited references for filing in connection with the above-identified application. Because this Information Disclosure Statement is filed prior to receipt of a First Office Action on the merits in the above-referenced application, no fee is due. However, should it be determined that a fee for filing these papers is required, the Commissioner is authorized to charge Deposit Account No. 50-1213, as stated below:

(X) The Commissioner is hereby authorized to charge any fees that may be due under 37 C.F.R. §§1.16-1.17 in connection with this paper or with this application during its entire pendency to Deposit Account No. 50-1213. A duplicate of this sheet is enclosed.

* * *

Respectfully submitted,
HELLER, EHRMAN, WHITE & McAULIFFE LLP

By:



Robert T. Ramos

Registration No. 37,915

Dated: October 7, 2002

Attorney Docket 38814-351B

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Examiner: Unassigned

**INFORMATION DISCLOSURE STATEMENT IN ACCORDANCE
WITH 37 C.F.R. §§ 1.97-1.98**

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

Because this Information Disclosure Statement is filed prior to receipt of a First Office Action on the Merits for the above-captioned application, a fee for filing this statement should not be due. If, however, it is determined that a fee is due, any fees that may be due in connection with filing this paper may be charged to Deposit Account No. 50-1213.

In accordance with the duty of disclosure imposed by 37 C.F.R. §1.56 to inform the Patent Office of all references known by Applicant or Applicant's representative that may be material to the examination of the subject application, Applicant's representative hereby provides this Information Disclosure Statement that is prepared in accordance with 37 C.F.R. §§1.97-1.98. Forms PTO-1449 (14 pages) and copies of the cited documents are provided herewith in connection with the above-captioned application.

The documents listed on the Forms PTO-1449 and supplied herewith are in the English language with the exception of items BM, BN and BO. Items BM, BN and BO, (Japanese Patent Nos. JP 1129785, 2000103743 and 9012471 respectively), which are in the Japanese language, are provided with English language Derwent

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abstracts (items DG, DH and DI respectively) describing the subject matter. Hence, in accordance with the requirements of 37 C.F.R. §1.98, as amended effective March 16, 1992, no further explanation of the listed items is necessary.

Applicant also makes known to the Examiner the following International applications, which are commonly owned and/or have one or more inventors in common.

<u>Int'l Appln. No.</u>	<u>Filing Date</u>	<u>Docket No.</u>
PCT/US01/5024	12/19/01	351PC

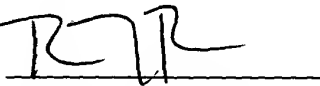
Although these documents are made known to the Patent and Trademark Office in compliance with Applicant's duty of disclosure, such disclosure is not to be construed as an admission by Applicant or Applicant's representative that any of the references, singly or in any combination thereof, is effective as prior art against the subject application. In accordance with 37 C.F.R. §1.97(h), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 C.F.R. §1.56(b) exists.

Applicant respectfully requests that the Examiner review the foregoing references and make them of record in the file history of the above-captioned application.

* * *

Respectfully submitted,
HELLER, EHRMAN, WHITE & McAULIFFE LLP

By:



Robert T. Ramos
Registration No. 37,915

Dated: October 7, 2002
Attorney Docket 38814-351B
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FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
38814-351BSERIAL NO.
10/032,201LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENTAPPLICANT
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
	A	0	0	3	7	3	0	3	03/28/02	Deckers <i>et al.</i>	424	401	07/05/01
	B	0	0	7	1	8	4	6	06/13/02	Deckers <i>et al.</i>	424	184.1	06/15/01
	C	0	0	7	1	8	5	2	06/13/02	Deckers <i>et al.</i>	424	401	10/24/01
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	E	0	1	0	0	0	7	3	07/25/02	Moloney <i>et al.</i>	800	278	07/25/02
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	G	0	1	1	4	8	2	0	08/22/02	Deckers <i>et al.</i>	424	401	08/22/02
	H	3	5	3	6	8	0	9	10/27/70	Applezweig	424	28	02/17/69
	I	3	5	9	8	1	2	3	08/10/71	Zaffaroni	128	268	04/01/69
	J	3	6	3	0	2	0	0	12/28/71	Higuchi <i>et al.</i>	128	260	06/09/69
	K	3	8	4	5	7	7	0	11/05/74	Theeuwes <i>et al.</i>	128	260	06/05/72
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	N	4	0	0	8	7	1	9	02/22/77	Theeuwes <i>et al.</i>	128	260	02/02/76
	O	4	5	2	2	8	1	1	06/11/85	Eppstein <i>et al.</i>	514	2	07/08/82
	P	4	6	8	7	6	1	0	08/18/87	Vassilatos	264	211.14	04/30/86
	Q	4	7	6	9	0	2	7	09/6/88	Baker <i>et al.</i>	424	493	02/24/87
	R	4	7	7	1	0	3	6	09/13/88	Pigiet <i>et al.</i>	514	17	02/10/86
	S	4	9	3	5	2	3	1	06/19/90	Pigiet	424	71	01/04/88
	T	4	9	4	0	8	3	8	07/10/90	Schilperoort <i>et al.</i>	800	205	02/23/84
	U	4	9	4	0	9	3	5	07/10/90	Riley	324	158F	08/28/89
	V	4	9	5	4	6	1	8	09/04/90	Fahnestock	530	387	03/15/89
	W	4	9	7	3	4	7	5	11/27/90	Schnetzinger <i>et al.</i>	424	70	10/07/88
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
	Y	5	0	7	3	5	4	3	12/17/91	Marshall <i>et al.</i>	514	21	07/21/88
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	AA	5	1	5	1	3	5	0	09/29/92	Colbert <i>et al.</i>	435	69.1	10/27/82
	AB	5	1	8	8	6	4	2	02/23/93	Shah <i>et al.</i>	47	58	02/12/90
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	AD	5	3	5	4	5	6	6	10/11/94	Addesso <i>et al.</i>	426	9	06/02/93
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	AK	5	5	9	9	6	7	0	02/04/97	Jefferson	435	6	02/21/95
	AL	5	6	1	4	3	9	5	03/25/97	Ryals <i>et al.</i>	435	172.3	01/13/94
	AM	5	6	3	9	4	7	6	06/17/97	Oshlack <i>et al.</i>	424	468	06/02/95
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	AO	5	6	7	4	5	3	3	10/07/97	Santus <i>et al.</i>	424	493	05/26/95
	AP	5	7	3	3	5	6	6	03/31/98	Lewis	424	426	10/30/95
	AQ	5	7	9	2	5	0	6	08/11/98	Buchanan <i>et al.</i>	426	656	10/21/94
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	AT	5	9	4	8	6	8	2	09/07/99	Moloney	435	483	04/25/97
	AU	5	9	6	5	3	9	0	10/12/99	Björck <i>et al.</i>	435	69.1	02/11/97
	AV	6	1	4	6	6	4	5	11/14/00	Deckers <i>et al.</i>	424	401	05/27/98
	AW	6	1	8	3	7	6	2	02/06/01	Deckers <i>et al.</i>	424	401	11/24/99

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	APPLICANT van Rooijen <i>et al.</i>	
	FILING DATE December 19, 2001	GROUP 1638

LIST OF PATENTS AND PUBLICATIONS FOR
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STATEMENT

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
	AX	6	2	1	0	7	4	2	04/03/01	Deckers <i>et al.</i>	426	630	04/05/00
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	AZ	6	3	7	2	2	3	4	04/16/02	Deckers <i>et al.</i>	424	401	05/24/00

FOREIGN PATENT DOCUMENTS

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	BA	0	0	3	6	1	2	6	06/22/00	PCT				
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	BJ	0	2	9	2	4	3	5	11/23/88	EP (B1)				
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	BO	9	0	1	2	4	7	1	01/14/97	JP				X*
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		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	Translation Yes No	
	BT	9	7	0	6	2	5	0	02/20/97	PCT				
	BU	9	7	3	2	9	7	7	09/12/97	PCT				
	BV	9	8	1	1	2	3	5	03/19/98	PCT				
	BW	9	8	4	9	3	2	6	11/05/98	PCT				
	BX	9	9	2	0	1	2	2	04/29/99	PCT				

* An English Language Abstract is provided.

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

BY	"RPAS Expression Module", Code Number 27-9401-01, Amersham Biosciences-Products-RPAS Expression Module, http://www1.amershambiosciences.com/aptrix/upp01077.nsf/Content/Products?OpenDocument&ModuleId...8/9/2002
BZ	Abell <i>et al.</i> , "Membrane Protein Topology of Oleosin is Constrained by its Long Hydrophobic Domain", <i>The Journal of Biological Chemistry</i> , <u>227</u> (10):8602-8610 (2002)
CA	Abenes <i>et al.</i> , "Transient expression and oil body targeting of an <i>Arabidopsis</i> oleosin-GUS reporter fusion protein in a range of oilseed embryos", <i>Plant Cell Reports</i> , <u>17</u> :1-7 (1997)
CB	Altschul <i>et al.</i> , "Basic Local Alignment Search Tool", <i>J. Mol. Biol.</i> , <u>215</u> :403-410 (1990)
CC	An, G., [17]"Binary Ti Vectors for Plant Transformation and Promoter Analysis", <i>Methods in Enzymology</i> , <u>153</u> :292-305 (1987)
CD	Aota <i>et al.</i> , "Protection Against Reperfusion-Induced Arrhythmias by Human Thioredoxin" <i>Journal of Cardiovascular Pharmacology</i> , <u>27</u> (5):727-732 (1996)
CE	Baker and Dyer, "Genetic Transformation of <i>Carthamus tinctorius</i> L. (Safflower)", <i>Biotechnology in Agriculture and Forestry</i> , <u>38</u> :201-210 (1996)
CF	Beaudoin <i>et al.</i> , "In vivo targeting of a sunflower oil body protein in yeast secretory (sec) mutants", <i>The Plant Journal</i> , <u>23</u> (2):159-170 (2000)
CG	Beaudoin and Napier, "The targeting and accumulation of ectopically expressed oleosin in non-seed tissues of <i>Arabidopsis thaliana</i> ", <u>210</u> :439-445 (2000)
CH	Bechtold and Pelletier, "In Planta <i>Agrobacterium</i> -Mediated Transformation of Adult <i>Arabidopsis thaliana</i> Plants by Vacuum Infiltration", <i>Methods in Molecular Biology</i> , <u>82</u> :259-266 (1998)

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LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

CI	Bevan <i>et al.</i> , "Structure and transcription of the nopaline synthase gene region of T-DNA", <i>Nucleic Acid Research</i> , <u>11</u> (2):369-385 (1983)
CJ	Bevan, M., "Binary <i>Agrobacterium</i> vectors for plant transformation", <i>Nucleic Acids Research</i> , <u>12</u> (22):8711-8721 (1984)
CK	Blackman and Ptashne, "Maximizing Gene Expression on a Plasmid Using Recombination in Vitro", <i>Cell</i> , <u>13</u> :65-71 (1978)
CL	Boothe <i>et al.</i> , "Molecular Farming in Plants: Oilseeds as Vehicles for the Production of Pharmaceutical Proteins", <i>Drug Development Research</i> , <u>42</u> :172-181 (1997)
CM	Bower <i>et al.</i> , "Two Members of the Thioredoxin-h Family Interact with the Kinase Domain of a Brassica S Locus Receptor Kinase", <i>The Plant Cell</i> , <u>8</u> :1641-1650 (1996)
CN	Boynton <i>et al.</i> , "Chloroplast Transformation in <i>Chlamydomonas</i> with High Velocity Microprojectiles", <i>Science</i> , <u>240</u> :1534-1537 (1988)
CO	Brasaemle, D., "Adipose differentiation-related protein is an ubiquitously expressed lipid storage droplet-associated protein", <i>Journal of Lipid Research</i> , <u>38</u> :2249-2263 (1997)
CP	Buchanan <i>et al.</i> , "Thioredoxin: A Multifunctional Regulatory Protein with a Bright Future in Technology and Medicine", <i>Arch. Biochem Biophys.</i> , <u>314</u> (2):257-260 (1994)
CQ	Buchanan <i>et al.</i> , "Thioredoxin-linked mitigation of allergic responses to wheat", <i>Proc. Natl. Acad. Sci. USA</i> , <u>94</u> :5372-5377 (1997)
CR	Carrillo and Lipman, "The Multiple Sequence Alignment Problem in Biology", <i>SIAM J. APPL. MATH.</i> , <u>48</u> (5):1073-1082 (1988)
CS	Carugo and Argos, "NADP-Dependent Enzymes.I: Conserved Stereochemistry of Cofactor Binding", <i>PROTEINS: Structure, Function, and Genetics</i> , <u>28</u> :10-28 (1997)
CT	Cater <i>et al.</i> , "Aqueous Extraction-An Alternative Oilseed Milling Process", <i>Journal of the American Oil Chemist's Society</i> , <u>51</u> :137-141 (1973)
CU	Chatterton <i>et al.</i> , "Immunoelectron microscopy of low density lipoproteins yields a ribbon and bow model for the conformation of apolipoprotein B on the lipoprotein surface", <i>Journal of Lipid Research</i> , <u>36</u> :2027-2037 (1995)
CV	Chaudary <i>et al.</i> , "Transgenic <i>Brassica carinata</i> as a vehicle for the production of recombinant proteins in seeds", <i>Plant Cell Reports</i> , <u>17</u> :195-200 (1998)
CW	Chen <i>et al.</i> , "Cloning and Secondary Structure Analysis of Caleosin, A Unique Calcium-Binding Protein in Oil Bodies of Plant Seeds", <i>Plant Cell Physiol</i> <u>40</u> (10):1079-1086 (1999)

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

CX	Christou <i>et al.</i> , "Production of Transgenic Rice (<i>Oryza Sativa</i> L.) Plants from Agronomically Important India and Japonica Varieties Via Electric Discharge Particle Acceleration of Exogenous DNA Into Immature Zygotic Embryos", <i>Bio/Technology</i> , <u>9</u> :957-962 (1991)
CY	Comai <i>et al.</i> , "Chloroplast Transport of a Ribulose Bisphosphate Carboxylase Small Subunit-5-Enolpyruvyl 3-Phosphoshikimate Synthase Chimeric Protein Requires Part of the Mature Small Subunit in Addition to the Transit Peptide", <i>The Journal of Biological Chemistry</i> , <u>28</u> (29):15104-15109 (1988)
CZ	Connolly, B., "Chemical synthesis of oligonucleotides containing a free sulphydryl group and subsequent attachment of thiol specific probes", <i>Nucleic Acids Research</i> , <u>13</u> (12):4485-4503 (1985)
DA	Cramer <i>et al.</i> , "Transgenic Plants for Therapeutic Proteins: Linking Upstream and Downstream Strategies", <i>Curr. Top Microbiol. Immunol.</i> , <u>240</u> :95-118 (1999)
DB	Cristiano <i>et al.</i> , "The Isolation and Characterization of the Bovine Cytochrome b ₅ Gene, and a Transcribed Pseudogene", <i>Genomics</i> <u>17</u> :348-354 (1993)
DC	Dai <i>et al.</i> , "Crystal Structure of <i>Arabidopsis thaliana</i> NADPH Dependent Thioredoxin Reductase at 2.5 Å Resolution", <i>J. Mol. Biol.</i> , <u>264</u> :1044-1057 (1996)
DD	Davis, R., "Lipoprotein structure and secretion", <i>Biochemistry of Lipids, Lipoproteins and Membranes</i> Vance and Vance (Eds.), Elsevier Science Publishers B.V., pp.403-459 (1991)
DE	Deckers <i>et al.</i> , "The Case for Recombinant Production of Pharmaceutical Proteins in Plants", <i>Annual Reports in Medical Chemistry</i> , <u>24</u> :237-245 (1999)
DF	del Val <i>et al.</i> , "Thioredoxin treatment increases digestibility and lowers allergenicity of milk", <i>J. Allergy Clin.Immunol.</i> , <u>103</u> (4) (1999)
DG	Derwent Accession No.:12368710 for Japanese Patent JP11029785, "Fluorosilicone grease-includes a fluorosilicone oil base oil, a fluorine-containing tackifier compound and a sorbitan fatty acid ester corrosion-preventing agent"
DH	Derwent Accession No.:13197113 for Japanese Patent JP 2000103743, "New food, cosmetics and medicine containing polypeptide having thioredoxin activity"
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DJ	Devereux <i>et al.</i> , "A comprehensive set of sequence analysis programs for the VAX", <i>Nucleic Acid Research</i> , <u>12</u> (1):387-395 (1984)

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DL	Frandsen <i>et al.</i> , "Oil bodies and their associated proteins, oleosin and caleosin", <i>Physiologia Plantarum</i> , <u>112</u> :301-307 (2001)
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DP	Giddings <i>et al.</i> , "Transgenic plants as factories for biopharmaceuticals", <i>Nature Biotechnology</i> , <u>18</u> :1151-1155 (2000)
DQ	Goldman <i>et al.</i> , "Reduction of Phenoxyl Radicals by Thioredoxin Results in Selective Oxidation of its SH-Groups to Disulfides. An Antioxidant Function of Thioredoxin", <i>Biochemistry</i> , <u>34(14)</u> :4765-4772 (1995)
DR	Goldschmidt-Clermont, M., "Transgenic expression of aminoglycoside adenine transferase in the chloroplast: a selectable marker for site-directed transformation of <i>chlamydomonas</i> ", <i>Nucleic Acids Research</i> , <u>19(15)</u> :4083-4089 (1991)
DS	Gordon-Kamm, W., "Transformation of Maize Cells and Regeneration of Fertile Transgenic Plants", <i>The Plant Cell</i> , <u>2</u> :603-618 (1990)
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EO	Kaeppeler <i>et al.</i> , "Silicon carbide fiber-mediated DNA delivery into plant cells", <i>Plant Cells Reports</i> , <u>9</u> :415-418 (1990)
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EU	Koltun, S., "Aflatoxin Inactivation of Undelinted Cottonseed by Ammoniation", <i>JAOCS</i> , <u>63</u> (4):533-534 (1986)
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EY	Lee and Huang <i>et al.</i> , "Genomic Nucleotide Sequence of a <i>Brassica napus</i> 20-Kilodalton Oleosin Gene", <i>Plant Physiol.</i> , <u>96</u> :1395-1397 (1991)
EZ	Lee <i>et al.</i> , "Maize oleosin is correctly targeted to seed oil bodies in <i>Brassica napus</i> transformed with the maize oleosin gene", <i>Proc. Natl. Acad. Sci. USA</i> , <u>88</u> :6181-6185 (1991)
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FB	Liu <i>et al.</i> , "Plant seed oil bodies as an immobilization matrix for a recombinant xylanase from the rumen fungus <i>Neocallimastix patriciarum</i> ", <i>Molecular Breeding</i> , <u>3</u> :463-470 (1997)

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FH	Marty and Meyer, "Nucleotide sequence of a cDNA encoding a tobacco thioredoxin", <i>Plant Molecular Biology</i> , <u>17</u> :143-147 (1991)
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FR	Næsted <i>et al.</i> , "Caleosins:Ca ₂₊ -binding proteins associated with lipid bodies", <i>Plant Molecular Biology</i> , <u>44</u> :463-476 (2000)
FS	Needleman and Wunsch, "A General Method Applicable to the Search for Similarities in the Amino Acid Sequence of Two Proteins", <i>J. Mol. Biol.</i> , <u>48</u> :443-453 (1970)
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FORM PTO-1449 (Modified) LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 38814-351B	SERIAL NO. 10/032,201
	APPLICANT van Rooijen <i>et al.</i>	
	FILING DATE December 19, 2001	GROUP 1638

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

HI	Thoyts <i>et al.</i> , "Expression and <i>in vitro</i> targeting of a sunflower oleosin", <i>Plant Molecular Biology</i> , <u>29</u> :403-410 (1995)
HJ	Ting <i>et al.</i> , "Oleosin of Plant Seed Oil Bodies is Correctly Targeted to the Lipid Bodies in Transformed Yeast", <i>The Journal of Biological Chemistry</i> , <u>272</u> (6):3699-3706 (1997)
HK	Unger <i>et al.</i> , "Isolation of a cDNA encoding mitochondrial citrate from <i>Arabidopsis thaliana</i> ", <i>Plant Molecular Biology</i> , <u>13</u> :411-418 (1989)
HL	van der Geest <i>et al.</i> , "The β -phaseolin gene is flanked by matrix attachment regions", <i>The Plant Journal</i> , <u>6</u> (3):413-423 (1994)
HM	van Rooijen <i>et al.</i> , "Nucleotide sequence of an <i>Arabidopsis thaliana</i> oleosin gene", <i>Plant Molecular Biology</i> , <u>18</u> :1177-1179 (1992)
HN	van Rooijen and Moloney, "Structural Requirements of Oleosin Domains for Subcellular Targeting to the Oil Body", <i>Plant Physiol.</i> , <u>109</u> :1353-1361 (1995)
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HP	Waksman <i>et al.</i> , "Crystal Structure of <i>Escherichia coli</i> Thioredoxin Reductase Refined at 2 Å Resolution", <i>J. Mol. Biol.</i> , <u>236</u> :800-816 (1994)
HQ	Weeks <i>et al.</i> , "Rapid Production of Multiple Independent Lines of Fertile Transgenic Wheat (<i>Triticum aestivum</i>)", <i>Plant Physiol.</i> , <u>102</u> :1077-1084 (1993)
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HS	Wiele <i>et al.</i> , "Purification and Functional Analysis of the <i>Mycobacterium leprae</i> Thioredoxin/Thioredoxin Reductase Hybrid Protein", <i>The Journal of Biological Chemistry</i> , <u>270</u> (43):25604-25606 (1995)
HT	Wong <i>et al.</i> , "Thioredoxin and Bread Wheat", <i>American Association of Cereal Chemists</i> , <u>70</u> (1):113-114 (1993)
HU	Yokomizo, <i>et al.</i> , "Cellular Levels of Thioredoxin Associated with Drug Sensitivity to Cisplatin, Mitomycin C, Doxorubicin, and Etoposide", <i>Cancer Res.</i> , <u>55</u> :4293-4296 (1995)

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